S/N: 10/605,066

Reply to Office Action of September 21, 2004

Amendments to the Specification:

Please amend paragraph 0006 as shown below:

Accordingly, the invention provides a method for monitoring torque in an electric motor having a power source connected thereto—is provided. The method includes measuring current of the motor, determining speed of the motor, and determining a first torque. The first torque is a function of at least the measured current. Power output from the power source is determined, a power loss for the motor is determined, and a second torque is determined. The second torque is a function of at least the power output from the power source, the determined power loss, and the motor speed. The first torque is compared to the second torque when the motor speed is above a predetermined speed.

Please amend paragraph 0018 as shown below:

The system 10, including the MCU 26 and the controller 28, is shown in greater detail in Figure 2. The first elements of the MCU 26 include standard motor control elements, well known to those in the art, and are therefore described here with limited detail. For example, a motor controller, or a field oriented torque controller 30, receives a variety of inputs, and then outputs voltages to a transformation function 32. The inputs received by the torque controller 30 include a reference torque (T_{ref}) which is a torque command based on an acceleration request from a vehicle operator. The torque controller 30 may also receive a shutdown command for the ISG 14, depending on vehicle requirements and the outcome of the torque monitoring explained below. Other inputs may include the angular position of the ISG 14, or more specifically, the angular position of a rotor (θ_r) as measured by a first sensor, or position sensor 34.